



TITLE: TRANSGENIC CIRCULATING ENDOTHELIAL CELLS INVENTORS NAME: Robert P. Hebbel et al.

SERIAL NO.: 09/865,022

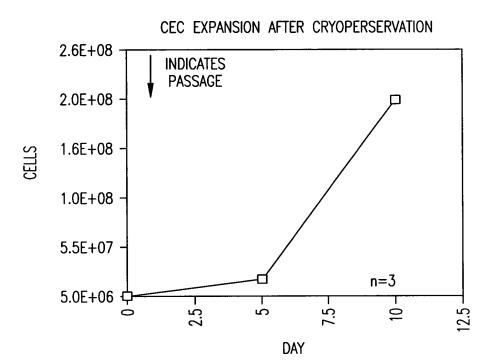


FIG. 2

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WillI/SQ/egfp, HF8SQgfp.gp, original HB- with B-domain SQ insert based on Lind t al, Bur J Biochem, 232, p21 prim r sequence, containing eGFP protein s qu nc \$

ATGCAAATAGAGCTCTCCACCTGCTTCTTTCTGTGCCTTTTGCGAT

AGTGCCACCAGAAGATACTACCTGGGTGCAGTGGAACTGTCATGG GACTATATGCAAAGTGA

TCTCGGTGAGCTGCCTGTGGACGCAAGATTTCCTCCTAGAGTGCC

AAAATCTTTTCCATTCAA CACCTCAGTCGTGTACAAAAAGACTCTGTTTGTAGAATTCACGGTT

CACCTTTTCAACATCGC
TAAGCCAAGGCCACCCTGGATGGGTCTGCTAGGTCCTACCATCCA

GGCTGAGGTTTATGATAC
AGTGGTCATTACACTTAAGAACATGGCTTCCCATCCTGTCAGTCTT

CATGCTGTTGGTGTATCC

TACTGGAAAGCTTCTGAGGGAGCTGAATATGATGATCAGACCAGT CAAAGGGAGAAAGAAGA

TGATAAAGTCTTCCCTGGTGGAAGCCATACATATGTCTGGCAGGTC CTGAAAGAGAATGGTCC

AATGGCCTCTGACCCACTGTGCCTTACCTACTCATATCTTTCTCAT
GTGGACCTGGTAAAAGA

CTTGAATTCAGGCCTCATTGGAGGCCCTACTAGTATGTAGAGAAGG GAGTCTGGCCAAGGAAA

AGACACAGACCTTGCACAAATTTATACTACTTTTTGCTGTATTTGA TGAAGGGAAAGTTGGC

AAAATGCACAGTCAATGGTTATGTAAACAGGTCTCTGCCAGGT CTGATTGGATGCCACAG

GAAATCAGTCTATTGGCATGTGATTGGAATGGGCACCACTCCTGA
AGTGCACTCAATATTCCT

CGAAGGTCACACATTTCTTGTGAGGAACCATCGCCAGGCGTCCTT GGAAATCTCGCCAATAAC

TTTCCTTACTGCTCAAACACTCTTGATGGACCTTGGACAGTTTCTA CTGTTTTGTCATATCTCT

TCCCACCAACATGATGGCATGGAAGCTTATGTCAAAGTAGACAGC TGTCCAGAGGAACCCCA

ACTACGAATGAAAATAATGAAGAAGCGGAAGACTATGATGATGA
TCTTACTGATCTGAAA

AGAAGCATCCTAAAACTTGGGTACATTACATTGCTGCTGAAGAGG AGGACTGGGACTATGCT

CCCTTAGTCCTCGCCCCGATGACAGAAGTTATAAAAGTCAATATT TGAACAATGGCCCTCAG

CGGATTGGTAGGAAGTACAAAAAAGTCCGATTTATGGCATACACA GATGAAACCTTTAAGAC

TCGTGAAGCTATTCAGCATGAATCAGGAATCTTGGGACCTTTACTT TATGGGGAAGTTGGAGA

CACACTGTTGATTATATTTAAGAATCAAGCAAGCAGACCATATAA CATCTACCCTCACGGAAT

CACTGATGTCCGTCCTTTGTATTCAAGGAGATTACCAAAAGGTGTA AAACATTTGAAGGATTT

TCCAATTCTGCCAGGAGAAATATTCAAATATAAATGGACAGTGAC



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TGTAGAAGATGGGCCAA

CTARATCAGATCCTCGGTGCCTGACCCGCTATTACTCTAGTTTCGT TAATATGGAGAGAGATC

TAGCTTCAGGACTCATTGGCCCTCTCCTCATCTGCTACAAGAATC
TGTAGATCAAAGAGGAA

ACCAGATAATGTCAGACAAGAGGGAATGTCATCCTGTTTTCTGTATT TGATGAGAACCGAAGCT

GGTACCTCACAGAGAATATACAACGCTTTCTCCCCAATCCAGCTG GAGTGCAGCTTGAGGATC

CAGAGTTCCAAGCCTCCAACATCATGCACAGCATCAATGGCTATG
TTTTTGATAGTTTGCAGT

TGTCAGTTTGCTTGCATGAGGTGGCATACTGGTACATTCTAAGCAT TGGAGCACAGACTGACT

TCCTTTCTGTCTTCTCTGGATATACCTTCAAACACAAAATGGTC
TATGAAGACACACTCAC

CCTATTCCCATTCTCAGGAGAAACTGTCTTCATGTCGATGGAAAAC CCAGGTCTATGGATTCT

GGGGTGCCACAACTCAGACTTTCGGAACAGAGGCATGACCGCCTT ACTGAAGGTTTCTAGTTG

TGACAAGAACACTGGTGATTATTACGAGGACAGTTATGAAGATAT
TTCAGCATACTTGCTGAG

TAAAAACAATGCCATTGAACCTAGG

AGCTTCTCTCAGAATATGGTGAGCAAGGGCGAGGAGC

TGTTCACCGG GGTGGTGCCC

ATCCTGGTCG AGCTGGACGG CGACGTAAAC GGCCACAAGT

TCAGCGTGTC CGGCGAGGGC

GAGGGCGATG CCACCTACGG CAAGCTGACC CTGAAGTTCA

TCTGCACCAC CGGCAAGCTG

CCCGTGCCCT GGCCCACCCT CGTGACCACC CTGACCTACG

GCGTGCAGTG CTTCAGCCGC

TACCCCGACC ACATGAAGCA GCACGACTTC TTCAAGTCCG

CCATGCCCGA AGGCTACGTC

CAGGAGCGCA CCATCTTCTT CAAGGACGAC GGCAACTACA

AGACCCGCGC CGAGGTGAAG

TTCGAGGGCG ACACCCTGGT GAACCGCATC GAGCTGAAGG

GCATCGACTT CAAGGAGGAC

GGCAACATCC TGGGGCACAA GCTGGAGTAC AACTACAACA

GCCACAACGT CTATATCATG

GCCGACAGC AGAAGAACGG CATCAAGGTG AACTTCAAGA

TCCGCCACAA CATCGAGGAC

GGCAGCGTGC AGCTCGCCGA CCACTACCAG CAGAACACCC

CCATCGGCGA CGGCCCCGTG

CTGCTGCCCG ACAACCACTA CCTGAGCACC CAGTCCGCCC

TGAGCAAAGA CCCCAACGAG

AAGCGCGATC ACATGGTCCT GCTGGAGTTC GTGACCGCCG

CCGGGATCAC TCTCGGCATG

GACGAGCTGT ACAAGTATCCACCAGTCTTGAAACGCCATCAACGG

GAAATAACTCGTACTACTCT

TCAGTCAGATCAAGAGG

AGGATGAAAATCAGAGCCCCCGCAGCTTTCAAAAGAAAACACGAC ACTATTTTATTGCTGCA

GTGGAGAGGCTCTGGGATTATGGGATGAGTAGCTCCCCACATGTT



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CTAAGAAACAGGGCTCA

GAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTTCCAGGAATTT ACTGATGGCTCCTTTAC

TCAGCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACTCCT GGGGCCATATATAAGAG

CAGAAGTTGAAGATAATATCATGGTAACTTTCAGAAATCAGGCCT CTCGTCCCTATTCCTTCT

ATTCTAGCCTTATTTCTTATGAGGAAGATCAGAGGCAAGGAGCAG AACCTAGAAAAAACTTT

GTCAAGCCTAATGAAACCAAAACTTACTTTTGGAAAGTGCAACAT

AGATGAGTTTGACTGCAAAGCCTGGGCTTATTTCTCTGATGTTGAC CTGGAAAAAGATGTGCA

CTCAGGCCTGATTGGACCCCTTCTGGTCTGCCACACTAACACACTG
AACCCTGCTCATGGGAG

ACAAGTGACAGTACAGGAATTTGCTCTGTTTTTCACCATCTTTGAT GAGACCAAAAGCTGGTA

CTTCACTGAAAATATGGAAAGAAACTGCAGGGCTCCCTGCAATAT CCAGATGGAAGATCCCA

CTTTTAAAGAGAATTATCGCTTCCATGCAATCAATGGCTACATAAT GGATACACTACCTGGCT

TAGTAATGGCTCAGGATCAAAGGATTCGATGGTATCTGCTCAGCA TGGGCAGCAATGAAAAC

ATCCATTCTATTCATTTCAGTGGACATGTGTTCACTGTACGAAAA AAGAGGAGTATAAAATG

GCACTGTACAATCTCTATCCAGGTGTTTTTTGAGACAGTGGAAATGT TACCATCCAAAGCTGGA

ATTTGGCGGGTGGAATGCCTTATTGGCGAGCATCTACATGCTGGG ATGAGCACACTTTTTCTG

GTGTACAGCAATAAGTGTCAGACTCCCCTGGGAATGGCTTCTGGA CACATTAGAGATTTTCAG

ATTACAGCTTCAGGACAATATGGACAGTGGGCCCCAAAGCTGGCC AGACTTCATTATTCCGG

ATCAATCAATGCCTGGAGCACCAAGGAGCCCTTTTCTTGGATCAA GGTGGATCTGTTGGCACC

AATGATTATTCACGGCATCAAGACCCAGGGTGCCCGTCAGAAGTT CTCCAGCCTCTACATCTC

TCAGTTTATCATCATGTATAGTCTTGATGGGAAGAAGTGGCAGACT TATCGAGGAAATTCCAC

TGGAACCTTAATGGTCTTCTTTGGCAATGTGGATTCATCTGGGATA
AAACACAATATTTTTTAA

CCCTCCAATTATTGCTCGATACATCGTTTGCACCCAACTCATTAT AGCATTCGCAGCACTCTT

CGCATGGAGTTGATGGGCTGTGATTTAAATAGTTGCAGCATGCCA TTGGGAATGGAGAGTAA

AGCAATATCAGATGCACAGATTACTGCTTCATCCTACTTTACCAAT ATGTTTGCCACCTGGTC

TCCTTCAAAAGCTCGACTTCACCTCCAAGGGAGGAGTAATGCCTG GAGACCTCAGGTGAATA

ATCCAAAAGAGTGGCTGCAAGTGGACTTCCAGAAGACAATGAAAG TCACAGGAGTAACTACT

CAGGGAGTAAAATCTCTGCTTACCAGCATGTATGTGAAGGAGTTCCTCCAGCAGTCAA

GATGGCCATCAGTGGACTCTCTTTTTTCAGAATGGCAAAGTAAAG



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GTTTTTCAGGGAAATCAA
GACTCCTTCACACCTGTGGTGAACTCTCTAGACCCACCGTTACTGA
CTCGCTACCTTCGAATT
CACCCCCAGAGTTGGGTGCACCAGATTGCCCTGAGGATGGAGGTT
CTGGGCTGCGAGGCACA
GGACCTCTACTGA*

FIG. 3D



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HSQREMEO

ATGCAAATAGAGCTCTCCACCTGCTTCTTTCTGTGCCTTTTGCGATTCTGCTTTAGTGCCACCA GAAGATACTACCTGGGTGCAGTGGAACTGTCATGGGACTATATGCAAAGTGATCTCGGTGAGCT GCCTGTGGACGCAAGATTTCCTCCTAGAGTGCCAAAATCTTTTCCATTCAACACCTCAGTCGTG TACAAAAAGACTCTGTTTGTAGAATTCACGGTTCACCTTTTCAACATCGCTAAGCCAAGGCCAC CCTGGATGGGTCTGCTAGGTCCTACCATCCAGGCTGAGGTTTATGATACAGTGGTCATTACACT TAAGAACATGGCTTCCCATCCTGTCAGTCTTCATGCTGTTGGTGTATCCTACTGGAAAGCTTCT GECONTROLAGA GARAGA GARAGA GARANTO AND ANTARA GARAGA GTGGAAGCCATACATATGTCTGGCAGGTCCTGAAAGAGATGGTCCAATGGCCTCTGACCCACT GTGCCTTACCTACTCATATCTTTCTCATGTGGACCTGGTAAAAGACTTGAATTCAGGCCTCATT GGAGCCCTACTAGTATGTAGAGAGGGAGTCTGGCCAAGGAAAAGACACAGACCTTGCACAAAT GATGCAGGATAGGGATGCTGCATCTGCTCGGGCCTGAAAATGCACACAGTCAATGGTTAT GTAAACAGGTCTCTGCCAGGTCTGATTGGATGCCACAGGAAATCAGTCTATTGGCATGTGATTG GAATGGGCACCACTCCTGAAGTGCACTCAATATTCCTCGAAGGTCACACATTTCTTGTGAGGAA CCATCGCCAGGCGTCCTTGGAAATCTCGCCAATAACTTTCCTTACTGCTCAAACACTCTTGTTG GACCTTGGACAGTTTCTACTGTTTTGTCATATCTCTTCCCACCAACATGATGGCATGGAAGCTT TOTOAAOADTADTADTADTADTTDDATTADDTAAADTOTTADTOATTOTADTADTADTATOADA CCTTCCTTTATCCAAATTCGCTCAGTTGCCAAGAAGCATCCTAAAACTTGGGTACATTACATTG CTGCTGAAGAGGAGGACTAGGTCCCTTAGTCCTCGCCCGATGACAGAGTTATAA **AAGTCAATATTTGAACAATGGCCCTCAGCGGATTGGTAGGAAGTACAAAAAGTCCGATTTATG** GCATACACAGATGAAACCTTTAAGACTCGTGAAGCTATTCAGCATGAAACAGCTTTTGGGAC **ATATAACATCTACCCTCACGGAATCACTGATGTCCGTCCTTTGTATTCAAGGAGATTACCAAAA**



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TGACTGTAGAAGATGGGCCAACTAAATCAGATCCTCGGTGCCTGACCCGCTATTACTCTAGTTT CGTTAATATGGAGAGAGATCTAGCTTCAGGACTCATTGGCCCTCTCCTCATCTGCTACAAAGAA TCTGTAGATCAAAGAGAGAAACCAGATAATGTCAGACAAGAGGAATGTCATCTGTTTTCTGTAT TTGATGAGAACCGAAGCTGGTACCTCACAGAGAATATACAACGCTTTCTCCCCAATCCAGCTGG AGTGCAGCTTGAGGATCCAGAGTTCCAAGCCTCCAACATCATGCACAGCATCAATGGCTATGTT TTTGATAGTTTGCAGTTGTTTGTTTGCATGAGGTGGCATACTGGTACATTCTAAGCATTG GAGCACAGACTGACTTCCTTTCTGTCTTCTTCTGGATATACCTTCAAACACAAATGGTCTA GGTCTATGGATTCTGGGGTGCCACAACTCAGACTTTCGGAACAGAGGCATGACCGCCTTACTGA AGGTTTCTAGTTGACAAGAACACTGGTGATTATTACGAGGACAGTTATGAAGATATTTCAGC ATACTTGCTGAGTAAAACAATGCCATTGAACCTAGGAGCTTCTCTCAGAATCCACCAGTCTTG ATGATACCATATCAGTTGAAATGAAGAAGGAAGATTTTGACATTTATGATGAGGATGAAAATCA GAGCCCCGCAGCTTTCAAAAGAAAACACGACACTATTTTATTGCTGCAGTGGAGAGGCTCTGG GATTATGGGATGAGTAGCTCCCCACATGTTCTAAGAAACAGGGCTCAGAGTGGCAGTGTCCCTC AGTTCAAGAAAGTTGTTTTCCAGGAATTTACTGATGGCTCCTTTACTCAGCCCTTATACCGTGG AGAACTAAATGAACATTTGGGACTCCTGGGGCCATATATAAGAGCAGAAGTTGAAGATAATATC ATGGTAACTTTCAGAAATCAGGCCTCTCGTCCCTATTCCTTCTATTCTAGCCTTATTTCTTATG AGGAAGATCAGAGGCAAGGAGCAGAACCTAGAAAAACTTTGTCAAGCCTAATGAAACCAAAAC TTACTTTTGGAAAGTGCAACATCATATGGCACCACTAAAGATGAGTTTGACTGCAAAGCCTGG GCTTATTTCTCTGATGTTGACCTGGAAAAAGATGTGCACTCAGGCCTGATTGGACCCCTTCTGG TCTGCCACACTAACACACTGAACCCTGCTCATGGGAGACAAGTGACAGTACAGGAATTTGCTCT AGGGCTCCCTGCAATATCCAGATGGAAGATCCCACTTTTAAAGAGAATTATCGCTTCCATGCAA TCAATGGCTACATAATGGATACACTACCTGGCTTAGTAATGGCTCAGGATCAAAGGATTCGATG ACTGTACGAAAAAAGAGGGGTATAAAATGGCACTGTACAATCTCTATCCAGGTGTTTTTGAGA CAGTGGAAATGTTACCATCCAAAGCTGGAATTTGGCGGGTGGAATGCCTTATTGGCGAGCATCT ACATGCTGGGATGAGCACACTTTTTCTGGTGTACAGCAATAAGTGTCAGACTCCCCTGGGAATG GCTTCTGGACACATTAGAGATTTTCAGATTACAGCTTCAGGACAATATGGACAGTGGGCCCCAA AGCTGGCCAGACTTCATTATTCCGGATCAATCAATGCCTGGAGCACCAAGGAGCCCTTTTCTTG **GATCAAGGTGGATCTGTTGGCACCAATGATTATTCACGGCATCAAGACCCAGGGTGCCCGTCAG AAGTTCTCCAGCCTCTACATCTCTCAGTTTATCATCATGTATAGTCTTGATGGGAAGAAGTGGC** AGACTTATCGAGGAAATTCCACTGGAACCTTAATGGTCTTCTTTGGCAATGTGGATTCATCTGG **GATAAAACACAATATTTTTAACCCTCCAATTATTGCTCGATACATCCGTTTGCACCCAACTCAT** TATAGCATTCGCAGCACTCTTCGCATGGAGTTGATGGGCTGTGATTTAAATAGTTGCAGCATGC CATTGGGAATGGAGAGTAAAGCAATATCAGATGCACAGATTACTGCTTCATCCTACTTTACCAA TATGTTTGCCACCTGGTCTCCTTCAAAAGCTCGACTTCACCTCCAAGGGAGGAGTAATGCCTGG **AGACCTCAGGTGAATAATCCAAAAGAGTGGCTGCAAGTGGACTTCCAGAAGACAATGAAAGTCA** CTCCAGCAGTCAAGATGGCCATCAGTGGACTCTCTTTTTTCAGAATGGCAAAGTAAAGGTTTTT CAGGGAAATCAAGACTCCTTCACACCTGTGGTGAACTCTCTAGACCCACCGTTACTGACTCGCT **ACCTTCGAATTCACCCCCAGAGTTGGGTGCACCAGATTGCCCTGAGGATGGAGGTTCTGGGCTGC** GAGGCACAGGACCTCTACTGA

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atttaaagctctaaggtaaatataaaatttttaagtgtataatgtgttaaactactgattctaa TTGTTTGTGTATTTTAGATTCCAACCTATGGAACTGATGAATGGGAGCAGTGGTGGAATGCCTT TAATGAGGAAAACCTGTTTTGCTCAGAAGAAATGCCATCTAGTGATGATGAGGCTACTGCTGAG TGTGAACATTCTACTCCTCCAAAAÄAGAAGAGAAAGGTAGAAGACCCCAAGGACTTTCCTTCAG CACCACAAAGGAAAAAGCTGCACTGCTATACAAGAAAATTATGGAAAAAATATTCTGTAACCTTT **ATAAGTAGGCATAACAGTTATAATCATAACATACTGTTTTTTCTTACTCCACACAGGCATAGAG** TGTCTGCTATTAATAACTATGCTCAAAAATTGTGTACCTTTAGCTTTTAATTTGTAAAGGGGT TAATAAGGAATATTTGATGTATAGTGCCTTGACTAGAGATCATAATCAGCCATACCACATTTGT AGAGGTTTTACTTGCTTTAAAAAACCTCCCACACCTCCCCTGAACCTGAAACATAAAATGAAT GCAATTGTTGTTGAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCA CAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAA TGTATCTTATCATGTCTGGATCCTCTACGCCGGACGCATCGTGGCCGGCATCACCGGCGCCACA GGTGCGGTTGCTGGCGCCTATATCGCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCG GGCTCATGAGCGCTTGTTTCGGCGTGGGTATGGTGGCAGGCCCGTGGCCGGGGGACTGTTGGGC GCCATCTCCTTGCATGCACCATTCCTTGCGGCGGCGGTGCTCAACGGCCTCAACCTACTACTGG GCTGCTTCCTAATGCAGGAGTCGCATAAGGGAGAGCGTCGAAATTCTCATGTTTGACAGCTTAT CATCGGCGCAGCACCATGGCCTGAAATAACCTCTGAAAGAGGAACTTGGTTAGGTACCTTCTGA GGCGGAAAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTGGGGAG CAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGG CTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCC CTAACTCCGCCCATCCCGCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGAC TAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGCCGTAGTG AGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTTCACGCTGCCGCAAGCACTCAGGGC GCAAGGGCTGCTAAAGGAAGCGGAACACGTAGAAAGCCAGTCCGCAGAAACGGTGCTGACCCCG GATGAATGTCAGCTACTGGGCTATCTGGACAAGGGAAAACGCAAGCGCAAAGAGAAAAGCAGGTA GCTTGCAGTGGGCTTACATGGCGATAGCTAGACTGGGCGGTTTTATGGACAGCAAGCGAACCGG **AATTGCCAGCTGGGGCGCCCTCTGGTAAGGTTGGGAAGCCCTGCAAAGTAAACTGGATGGCTTT** CTTGCCGCCAAGGATCTGATGGCGCAGGGGATCAAGATCTGATCAAGAGACAGGATGAGGATCG TTTCGCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTAT TCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGC GAGGCAGCGCGCTATCGTGGCTGGCCACGACGGCGTTCCTTGCGCAGCTGTGCTCGACGTTG TCACTGAAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATC TCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTT TGGAAGCCGGTCTTGTCGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGA ACTGTTCGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGAT GCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGC TGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGG CGGCGAATGGGCTGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCATC AGCGACGCCCAACCTGCCATCACGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGC TTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGT TCTTCGCCCACCCCGGGCTCGATCCCCTCGCGAGTTGGTTCAGCTGCTGCCTGAGGCTGGACGA CCTCGCGGAGTTCTACCGGCAGTGCAAATCCGTCGGCATCCAGGAAACCAGCAGCGGCTATCCG CGCATCCATGCCCCGAACTGCAGGAGTGGGGAGGCACGATGGCCGCTTTGGTCCCGGATCTTT ATTTTAGATTCCAACCTATGGAACTGATGAATGGGAGCAGTGGTGGAATGCCTTTAATGAGGAA AACCTGTTTTGCTCAGAAGAAATGCCATCTAGTGATGATGAGGCTACTGCTGACTCTCAACATT CTACTCCTCCAAAAAGAAGAGAAAGGTAGAAGACCCCAAGGACTTTCCTTCAGAATTGCTAAG GAAAAAGCTGCACTGCTATACAAGAAAATTATGGAAAAATATTCTGTAACCTTTATAAGTAGGC **ATAACAGTTATAATCATAACATACTGTTTTTTTTTACTCCACACAGGCATAGAGTGTCTGCTAT** TAATAACTATGCTCAAAAATTGTGTACCTTTAGCTTTTAATTTGTAAAGGGGTTAATAAGGAA

10/13

TATTTGATGTATAGTGCCTTGACTAGAGATCATAATCAGCCATACCACATTTGTAGAGGTTTTA TTGTTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCAC **AAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATG**GTATCTTA TCATGTCTGGATCTCGACCGAGCCCTTGAGAGCCTTCAACCCAGTCAGCTCCTTCCGGTGGGCG CGGGGCATGACTATCGTCGCCGCACTTATGACTGTCTTCTTTATCATGCAACTCGTAGGACAGG TGCCGGCAGCGCTCTGGGTCATTTTCGGCGAGGACCGCTTTCGCTGGAGCGCGACGATGATCGG CCTGTCGCTTGCGGTATTCGGAATCTTGCACGCCCTCGCTCAAGCCTTCGTCACTGGTCCCGCC ACCAAACGTTTCGGCGAGAAGCAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACG TCTTGCTGGCGTTCGCGACGCGAGGCTGGATGGCCTTCCCCATTATGATTCTTCTCGCTTCCGG CAGCTTCAAGGATCGCTCGCGGCTCTTACCAGCCTAACTTCGATCACTGGACCGCTGATCGTCA CGGCGATTTATGCCGCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTAGGCGCCCCCCT **ATACCTTGTCTGCCTCCCCGCGTTGCGTCGCGGTGCATGGAGCCGGGCCACCTCGACCTGAATG** GAGAACTGTGAATGCGCAAACCAACCCTTGGCAGAACATATCCATCGCGTCCGCCATCTCCAGC AGCCGCACGCGGCGCATCTCGGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCCTGAC GAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACC **AGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATA** CCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTACCTATCTC AGTTCGGTGTACCTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACC GCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACT GGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTG **AAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGC** TGGTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTG **ATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGA GATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAA**TCAATCTA **AAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCA** GCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATAC GGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCC **AGATTTATCAGCAATAAACCAGCCAGCCAGAAGGGCCCAGCCGCAGAAGTGGTCCTGCAACTTTA** GTTTGCGCAACGTTGTTGCCATTGCTGCAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGC TTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAA TGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGAC TGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCG GCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAAC GTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCAC TCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACA GGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCT TCCTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGA **ATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGAC GTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTC GTCTTCAA**



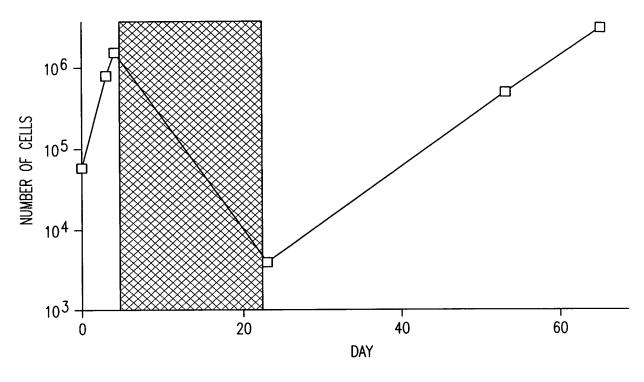
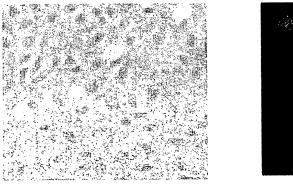


FIG. 5A





MORPHOLOGY & FLUORESCENCE OF PLE9 TRANSDUCED CELLS AT DAY 53

FIG. 5B



TITLE: TRANSGENIC CIRCULATING ENDOTHELIAL CELLS INVENTORS NAME: Robert P. Hebbel et al.

SERIAL NO.: 09/865,022

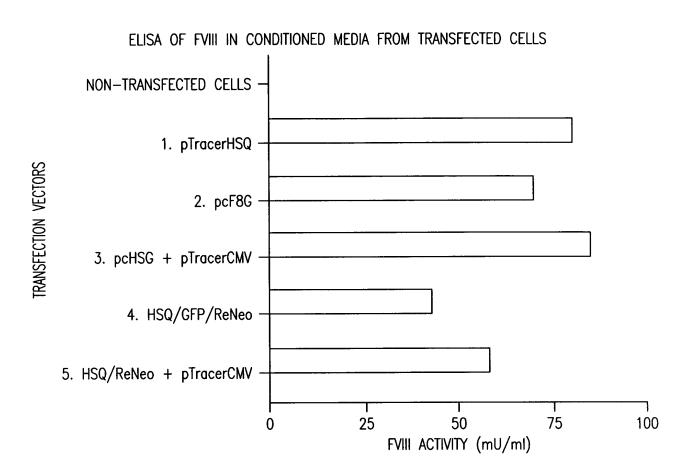


FIG. 6





